

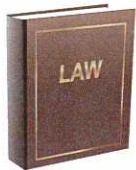
# FirstNet by the Numbers

## VISION

To provide emergency responders with the first high-speed, wireless nationwide public safety broadband network (NPSBN)

## THE LAW 2.22.12

FirstNet becomes Law  
PL 112-96



## GOVERNANCE



The FirstNet Board has **15** members, including those with telecommunications and public safety backgrounds.

Each Governor appoints **1** single Point of Contact and governing body to represent the state's interests to FirstNet.

**40** member Public Safety Advisory Committee (PSAC) advises FirstNet on public safety intergovernmental matters.



## WHO WILL USE FIRSTNET

**4-13 Million** potential FirstNet public safety users nationwide



FirstNet's goal is to ensure there is service in all **50** US states, **5** territories, and the District of Columbia.

## FUNDING

**\$7B**



authorized to build the FirstNet Network. Funded by spectrum auctions through 2022.

## BAND CLASS (BC) 14

**20MHz** of bandwidth has been dedicated to public safety in the prime upper **700MHz** frequency range.

BC 17		BC 29		BC 12		BC 13	BC 14	LMR	BC 13	BC 14	LMR
COMMERCIAL	COMMERCIAL	COMMERCIAL	COMMERCIAL	COMMERCIAL	COMMERCIAL	COMMERCIAL	PS BROADBAND	PS NARROWBAND	COMMERCIAL	PS BROADBAND	PS NARROWBAND
UL	UPLINK	DOWNLINK	DL	DOWNLINK	DOWNLINK	DOWNLINK	FirstNet	FirstNet	UPLINK	UPLINK	FirstNet
6 MHz	12 MHz	12 MHz	6 MHz	12 MHz	11 MHz		10 MHz	6 MHz	11 MHz	10 MHz	6 MHz
1 MHz Guard Bands											



**First Responder Network Authority**  
For more FirstNet facts visit: [www.firstnet.gov](http://www.firstnet.gov)



Thank you to the State of Oregon for the initial development of this document

(revised September 2015)



# FirstNet by the Numbers

## THE COVERAGE CHALLENGE

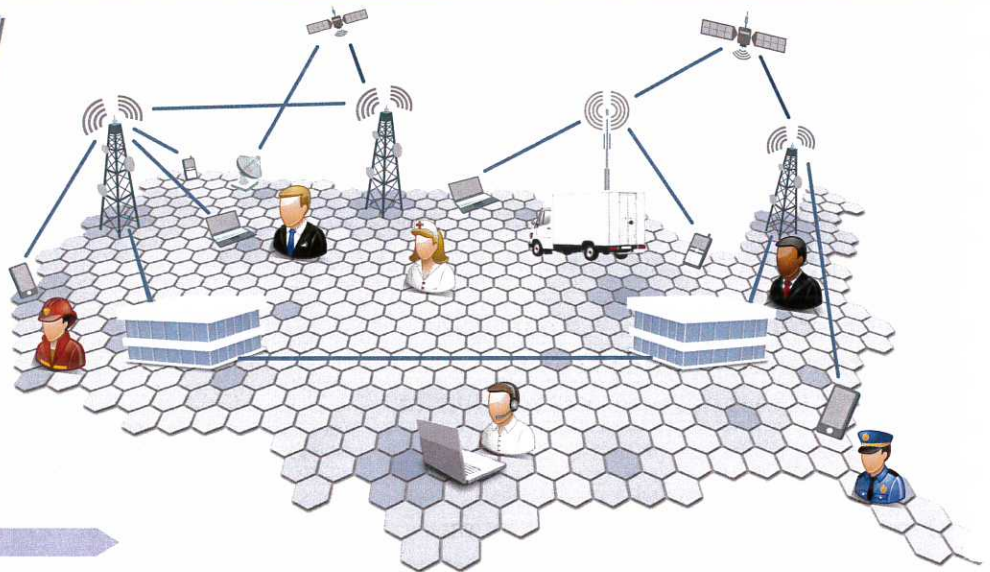
Coverage challenge: Providing service to **60,000** public safety agencies, **3,144** counties, and **566** federally recognized tribes in coverage areas including urban and rural



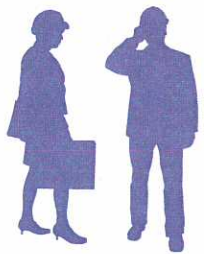
## FIRSTNET NETWORK

To meet this challenge, FirstNet is considering a network architecture using land-based cellular, satellite infrastructure and deployable systems to provide coverage.

**4G LTE** is **10x**  
faster than 3G wireless service



## THE ROAD TO THE NPSBN



### 2014-2016

- Strategic Program Roadmap
- Conduct Consultation
- Collect data and design network
- Develop and award comprehensive RFP
- Establish network core

## HOW MUCH WILL IT COST?

To offer services that meet the needs of public safety at a cost that's competitive and compelling to users.

- FirstNet Tenet

**2022**

Network substantially in operation

### 2016+

- Governor reviews design offer and opts in or out of FirstNet network deployment
- Integrate Next Generation 9-1-1

SOURCES FOR DATA:

60,000 public safety agencies (dhs.gov) | 3,144 counties (usgs.gov) | 566 federally recognized tribes (bia.gov)



**FirstNet**

**First Responder Network Authority**

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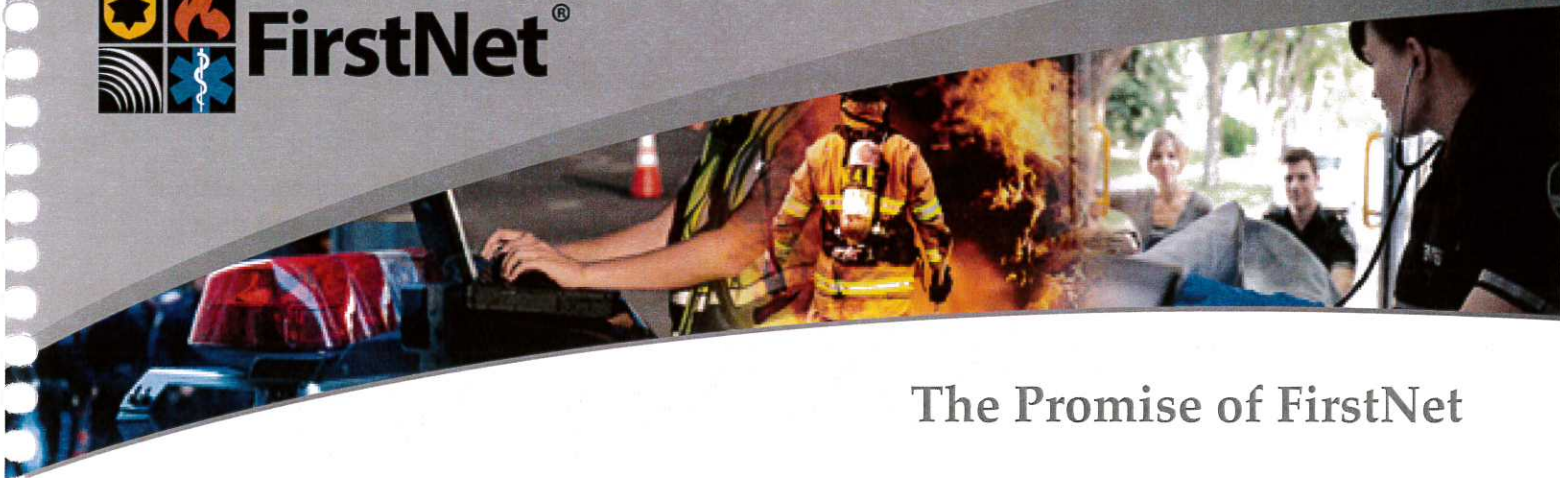
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# FirstNet®



## The Promise of FirstNet

### WHAT IS THE FIRST RESPONDER NETWORK AUTHORITY (FIRSTNET)?

FirstNet is an independent authority within the U.S. Department of Commerce's National Telecommunications and Information Administration. FirstNet is governed by a 15-member Board consisting of the Attorney General of the United States, the Secretary of Homeland Security, the Director of the Office of Management and Budget, and 12 members appointed by the Secretary of Commerce. The FirstNet Board is composed of representatives from public safety; local, state and federal government; and the wireless industry.

Signed into law on February 22, 2012, the [Middle Class Tax Relief and Job Creation Act](#) created FirstNet. The law gives FirstNet the duty to build, operate and maintain the first high-speed, nationwide wireless broadband network dedicated to public safety entities. FirstNet will provide a single interoperable platform for public safety communications.

### WHAT WILL BE POSSIBLE WITH THE FIRSTNET NETWORK?

The FirstNet network will improve citizen and responder safety and increase the efficiency and effectiveness of emergency response through cutting edge broadband communications. Imagine a day when a single communications network can be used to dispatch EMS personnel, a medical helicopter, police officers, and fire personnel from different jurisdictions all at the same time, utilizing voice, video, and data at broadband speeds.

Public safety personnel using the FirstNet network will be able to share applications, access databases, and provide better informed responses to incidents through integrated communications.

FirstNet's goal is to provide public safety-grade reliability and nationwide coverage so all public safety personnel can count on the network when they are on the job. FirstNet is also aiming to provide coverage solutions that let public safety "take the network along" to the destination in certain geographies. FirstNet will create a nationwide standard of service while affording localized customization and control.

When the FirstNet network launches, it will provide mission-critical, high-speed data services to supplement the voice capabilities of today's Land Mobile Radio (LMR) networks. Initially, the FirstNet network will be used for sending data, video, images and text. The FirstNet network will also carry location information and eventually support streaming video. FirstNet plans to offer cellular voice communications such as Voice over Long Term Evolution (VoLTE) or other alternatives.



## WHY WAS FIRSTNET CREATED?

The public safety community fought hard to fulfill the 9/11 Commission's last standing recommendation and lobbied Congress to pass legislation establishing a dedicated, reliable network for advanced data communications nationwide. During emergencies, public safety personnel need priority access and preemption, which are not available on commercial networks.

## HOW WILL THE FIRSTNET NETWORK BENEFIT PUBLIC SAFETY?

Using the FirstNet network will improve situational awareness, decision-making and responder and citizen health and safety. Just as smartphones have changed personal lives, FirstNet devices and applications will ultimately change the way public safety operates. FirstNet devices will work anywhere on the network and will save time when seconds matter. A market of millions of public safety users will bring savings opportunities to state and local budgets. FirstNet will bring the benefits of a single, nationwide, interoperable network that is built to open standards to public safety agencies across the country. With millions of users on a single network, FirstNet can take advantage of increased vendor competition and economies of scale to drive down the final cost to the public safety user.

## WHAT WILL USERS PAY FOR FIRSTNET'S SERVICES?

FirstNet intends to offer services at a compelling and competitive cost to attract millions of public safety users and make FirstNet self-sustaining. The use of FirstNet services and applications will be voluntary. The costs for FirstNet services and devices have not yet been set.

## HOW WILL STATES AND AGENCIES PARTICIPATE IN THE BUILDOUT OF FIRSTNET?

The law that established FirstNet requires it to consult with regional, state, tribal and local jurisdictions to ensure that the FirstNet network is designed to meet the needs of public safety across the country. State consultation will be a collaborative process, involving key stakeholders and leadership from each state and territory, and will be iterative to allow for enhancements and improvements from the state and territory. FirstNet will work through the designated single officer or governmental body during consultation to gather requirements from key stakeholders for developing its deployment plan. Additional information on state consultation is available at <http://firstnet.gov/consultation>.







**FirstNet®**



## FirstNet and Elected Officials

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Signed into law on February 22, 2012, the [Middle Class Tax Relief and Job Creation Act](#) created FirstNet. The law gives FirstNet the duty to ensure the building, deployment, and operation of the first nationwide public safety broadband network. FirstNet will provide a single interoperable platform for public safety communications.

### WHAT WILL THE FIRSTNET NETWORK DO FOR MY CITY OR COUNTY?

The FirstNet network is intended to improve citizen and responder safety and increase the efficiency and effectiveness of emergency response through cutting edge broadband communications. Imagine a day when a single communications network can be used to dispatch EMS personnel, a medical helicopter, police officers, and fire personnel from different jurisdictions all at the same time, utilizing voice, video, and data at broadband speeds. FirstNet's goal is for public safety personnel using the FirstNet network to be able to share applications, access databases, and provide better informed responses to incidents through integrated communications.

FirstNet's goal is to provide a network with reliability and nationwide coverage that meets the needs of public safety personnel when they are on the job. FirstNet is also aiming to provide coverage solutions that let public safety "take the network along" to the destination in certain geographies. FirstNet plans to create a nationwide standard of service while affording localized customization and control.

### WILL THE FIRSTNET NETWORK REPLACE THE LAND MOBILE RADIO (LMR) NETWORKS PUBLIC SAFETY USES TODAY?

When the FirstNet network launches, it will provide mission-critical, high-speed data services to supplement the voice capabilities of today's Land Mobile Radio (LMR) networks. Initially, the FirstNet network is intended to be used for sending data, video, images and text. The FirstNet network is also intended to carry location information and eventually support streaming video. FirstNet plans to offer cellular voice communications such as Voice over Long Term Evolution (VoLTE) or other alternatives. The FirstNet network will not become a viable replacement for LMR until the availability of mission-critical voice functionality that meets or exceeds the needs of public safety agencies.

### WHO IS RESPONSIBLE FOR BUILDING THE NETWORK COMPONENTS?

FirstNet is responsible for ensuring the building of the network core. If a state decides to opt-in and accept FirstNet's state plan, FirstNet will pay to build out the state's radio access network (RAN) that will connect to the core. FirstNet will also be financially responsible for the network's operations and maintenance.

### WILL ALL MY PUBLIC SAFETY EMPLOYEES HAVE TO SUBSCRIBE TO THE NETWORK?

Use of the FirstNet network is voluntary, and no public safety agency is required to participate. However, a network built for and dedicated to public safety agencies should provide a dependable and affordable user experience making FirstNet network an attractive choice for first responders.



### HOW MUCH IS THE SUBSCRIPTION COST AND WILL IT BE PER USER OR PER DEVICE?

FirstNet intends to offer services at a compelling and competitive cost to attract millions of public safety users and make the FirstNet network self-sustaining. The costs for FirstNet's services and devices have not yet been set.

### WHO WILL BE RESPONSIBLE FOR OPERATING AND MANAGING THE NETWORK IN MY CITY OR COUNTY?

FirstNet will be responsible for managing core operations and RAN operations for opt-in states. FirstNet also will enable robust identity management and authentication practices at the local level.

### WHEN WILL THE NETWORK BE AVAILABLE IN MY CITY OR COUNTY?

Each state/territory will participate in a series of meetings with FirstNet as part of the required consultation process. Once the state plan is finalized, and a governor opts into the network, the RAN will be built to the plan specifications. FirstNet cannot determine at this time when its services will be available to cities and counties.

### HOW CAN MY CITY OR COUNTY PARTICIPATE IN THE DEVELOPMENT OF THE FIRSTNET NETWORK?

FirstNet is responsible for working through the designated state Single Points of Contact (SPOC) to consult with states, local communities, tribal governments, and first responders to gather requirements for developing its network deployment plans. Elected officials may provide input to FirstNet via the outreach efforts being coordinated by the SPOC in each state and through future proposed rulemaking processes that will take place.

Elected officials may also want to contact members of the FirstNet Public Safety Advisory Committee (PSAC). PSAC members represent associations whose memberships are comprised of local, state, and tribal entities. More information regarding the PSAC and its membership is available at <http://firstnet.gov/about/public-safety-advisory-committee>.

FirstNet often participates in professional association meetings and conferences. To request FirstNet's participation at a meeting or conference, please contact us at [info@firstnet.gov](mailto:info@firstnet.gov).

To stay up-to-date on FirstNet activities, elected officials can track progress at [www.firstnet.gov](http://www.firstnet.gov) and @FirstNetGov on Twitter.

### WHAT AGENCIES BESIDES LAW ENFORCEMENT, FIRE, EMS, AND 911 CAN USE THE NETWORK? WHAT OTHER CITY/COUNTY OFFICIALS WILL BE ABLE TO USE THE NETWORK DURING AN EMERGENCY?

In September 2014, FirstNet issued a public notice seeking comments regarding its interpretation of network users (among other topics), including "public safety entity", "secondary" and "other" network users. Sixty-three responses were received and FirstNet will review and analyze the comments before making a final determination. State and territory specific discussions regarding network users will continue during the consultation process.

### WHO IS MY STATE/TERRITORY SINGLE POINT OF CONTACT FOR FURTHER INFORMATION?

To identify the SPOC for a state, visit <http://firstnet.gov/consultation>.

